

CURRICULUM VITAE AND BIBLIOGRAPHY

Name: Filemon K. Tan, M.D., Ph.D.
Present title: Associate Professor in Medicine
Address: University of Texas-Houston, Medical School
Division of Rheumatology, MSB 5.622
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EDUCATION

Undergraduate: *Bachelor of Science* - Biochemistry, May 1984, University of Texas at Arlington, Arlington, Texas

Graduate: *Doctor of Philosophy*, 1984-1990, University of Texas Health Science Center at Houston, Graduate School of Biomedical Sciences, Houston, Texas
Doctor of Medicine, 1984 – 1990, University of Texas- Houston, Medical School

Postgraduate: *Internship* in Internal Medicine, January 1991 - December 1991, University of Texas-Houston, Medical School
Residency in Internal Medicine, January 1992 - December 1993, University of Texas Houston, Medical School
Research fellow in Rheumatology, January 1994 - May 1994, University of Texas-Houston, Medical School
Clinical fellow in Rheumatology, June 1995-June 1998, University of Texas-Houston, Medical School

ACADEMIC APPOINTMENTS:

Instructor of Medicine, May 1994 – May 1995, Dept. of Internal Medicine, University of Texas-Houston, Medical School
Assistant Professor of Medicine, July 1998 – August 2004, Division of Rheumatology, University of Texas-Houston, Medical School
Associate Professor of Medicine (with tenure), Sept 2004 – present, Division of Rheumatology, University of Texas-Houston, Medical School
Program Director for Rheumatology, July 2005 – present, Division of Rheumatology, University of Texas-Houston, Medical School

HOSPITAL APPOINTMENTS

Hermann Hospital, Houston, TX (active)
Lyndon B. Johnson Hospital, Houston, TX (active)

LICENSURE

Texas License no. J0874, March 1992

SPECIALTY BOARD STATUS AND MEDICAL LICENSURE

Diplomate in Rheumatology, American Board of Internal Medicine, 1998-2008
Diplomate in Internal Medicine, American Board of Internal Medicine, 1995-2015

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Texas Medical Association, 1984-1994
American Medical Association, 1984-1994
American Heart Association, 1987-1994
American Association for the Advancement of Science, 1989-2003
American College of Physicians, 1994-1997
American College of Rheumatology, 1995-present

HONORS AND AWARDS

2005-2007, Dean's Teaching Excellence Award
2006, Alpha Omega Alpha Honor Medical Society
2004-2005, Dean's Teaching Excellence Award
2000, Outstanding Clinical Associate Physician Award, General Clinical Research Centers Annual Meeting
1998, American College of Rheumatology Outstanding Senior Rheumatology Scholar Award
1994 - 1995, Chief Medical Resident, Internal Medicine
1984 - 1990, M.D. Ph.D. fellowship
1984, National Institutes of Health summer research fellowship
1983, Phi Lambda Upsilon Honorary Chemical Society
1983, Outstanding Service Award, American Chemical Society
1982, Phi Mu Epsilon National Honorary Mathematics Fraternity
1981 - 1984, Robert A. Welch Foundation research fellowship

EDITORIAL POSITIONS:

2001-2005, Advisory Editorial Board, Arthritis and Rheumatism
Ad Hoc reviewer – New England Journal of Medicine; Journal of Rheumatology; Tissue and Antigens; Journal of Musculoskeletal Diseases; American Journal of Medicine, Arthritis and Rheumatism

SERVICE OF NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

2002, 2003 NIH-NIAMS Special Emphasis Panel, ZAR1 JRL-D (M1) Clinical Career Development Awards (12/18/2002, 4/28/03)
2004 NIH-NIAMS Special Emphasis Panel, ZAR1 GHN-B (M1) (4/30/2004)
2003-2005 Scleroderma Foundation Peer Review Committee
2005 Autoimmune diseases section, American Institute of Biological Sciences, PRMRP-05
2005 NIH-NIAMS P60 MCRC Review Committee
2006 NIH-NIAMS Special Emphasis Panel ZAR1 EHB-J M1 1 (3/27/2006)
2006 Invited external reviewer, Northwestern University MCRC
2006-2007 Invited reviewer, Arthritis Research Campaign (UK)

SERVICE ON THE UNIVERSITY OF TEXAS-HOUSTON MEDICAL SCHOOL COMMITTEES:

MD PhD Admissions Committee 2007- present
GCRC-Scientific Advisory Committee 2004- present
Curriculum Committee for the MD Program 2004-2007
Curriculum Evaluation Subcommittee 3rd and 4th year Clerkships in Family Practice, Neurology, Obstetrics and Gynecology, Pediatrics and Psychiatry
Comprehensive Clinical Competency Exam (CCCE) Committee 2005-present

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

PhD Thesis advisory Committee – Lisa Vincent (Graduate Student) – Dianna Milewicz, MD PhD, Supervisor.
PhD Candidacy Exam Committee – Lisa Vincent (Graduate Student) – Dianna Milewicz, MD PhD, Supervisor
PhD Thesis supervisor – Malisa S. Lester (MD PhD student)
PhD Thesis advisory Committee – Gopal Sapparapu (Graduate Student) – Sudhir Paul, PhD, Supervisor
PhD Thesis Advisory Committee – Julie Roberston (Graduate Student) – Yahuan Lou, PhD, Supervisor
PhD Candidacy Exam Committee – Julie Roberston (Graduate Student) – Yahuan Lou, PhD, Supervisor

SPONSORSHIP OF POSTGRADUATE FELLOWS:

Mentor and supervisor – S. Sohail Ahmed, MD (American College of Rheumatology Research and Education Fellow Award, 2002-2004)
Mentor and supervisor – Shervin Assassi, MD (American College of Rheumatology Research and Education Fellow Award, 2006-2008)

CURRENT TEACHING RESPONSIBILITIES:

- 1) Rheumatology Inpatient Consult Service, 2004 - present
- 2) General Medicine Ward Attending – July 2002, February 2005, October 2006
- 3) Attending Rheumatologist at the 2nd year Rheumatology Fellow's clinic at UTPB - 2-half days/week
- 4) Rheumatology Case Conference – weekly
- 5) Rheumatology Journal Club – weekly
- 6) Problem-Based Learning – Facilitator, Spring Period 4 in 2001 and 2003 and Period 1 in 2006 and 2007
- 7) 3rd year medical student Core Curriculum Lectures in Medicine – Rheumatology, every year
- 8) Fundamental of Clinical Medicine Small Groups – Rheumatology, every year since 1998
- 9) Fundamentals of Clinical Medicine Lecture – “Mechanisms of Joint Disease”, 2004-2007
- 10) Physical Diagnosis Course – Musculoskeletal Exam Module, 2005- present
- 11) Dept. of Internal Medicine Resident Core Curriculum – “Rheumatoid Arthritis and Osteoarthritis”, 2004-present
- 12) Rheumatology Fellows Core Curriculum Lectures 2004-present
- 13) Associate Program Director, Dept. of Internal Medicine, Rheumatology Fellowship Program, 2004-2005
- 14) Program Director, Dept. of Internal Medicine, Rheumatology Fellowship Program, 2004-present
- 15) Course Director, TMC Rheumatology Grand Rounds Series, 2007-present

INVITED LECTURES

- 1) Comprehensive Review Course in Physical Medicine and Rehabilitation (Baylor College of Medicine): “Rheumatoid Arthritis: Clinical Signs, Laboratory Values, Treatment and its Adverse Effects” – 2002, 2003, 2004, 2005 and 2007
- 2) UT Medical School Dept of Internal Medicine Fellows Federation – “Introduction to genomic tools and its uses in Medicine”, May 1, 2003
- 3) Texas A&M Institute for Biosciences and Technology – Skeletal Biology Seminar Series – “Gene expression analysis of human osteoarthritis”, April 30, 2003
- 4) UT Houston Medical School Annual Research Retreat – “Human osteoarthritis – Identification of novel disease targets with microarrays” February 28, 2003
- 5) UT Houston Medical School Annual Research Retreat – “Microarrays: The clinician investigator's perspective” February 16, 2002
- 6) 8th International Workshop on Scleroderma Research, “SNP Analysis” July 31-August 4, 2004, Cambridge, UK
- 7) Scleroderma Minisymposium, “Transcriptional profiling of cultured dermal fibroblasts from patients with early diffuse SSc” Biogen Idec, Jan 14, 2004, Cambridge, MA
- 8) UT Houston Medical School Annual Research Retreat – “Pathophysiology of human and murine models of scleroderma” – March 5, 2005
- 9) Invited speaker, 9th International Workshop on Scleroderma Research, “Microarray Analysis” August 5th-9th, 2006, Boston, MA

10) Invited speaker, Professor E. Carwile LeRoy Memorial International Workshop on Scleroderma (Tokyo).
May 18-20, 2007

CURRENT GRANT SUPPORT

1P50AR054144-01 (Arnett) 9/1/2006-8/31/2011 27.5%
NIH/NIAMS
Role: Co-PI of Project I and Director Core B

1P50HL083794-01 (Milewicz) 5/16/06-4/30/2007 10%
NIH/NHLBI
Specialized Centers of Research (SCOR) in Thoracic Aortic Aneurysm

W81XWH-07-1-0111 (Mayes) 2/5/2007 – 2/4/2011 10%
Department of Defense
Polymorphisms in Scleroderma: Defining Genetic Susceptibility Factors
Role: Collaborator

PAST GRANT SUPPORT:

PI: Filemon K. Tan
TITLE: Genetic and protein studies of fibrillin-1 in scleroderma
\$244,748 July 1, 2001 – June 30, 2003
NIH:NCRR 3 M01 RR02558-12S1

PI: Dianna M. Milewicz
Co-PI: Filemon K. Tan
TITLE: Characterization of Microfibril Abnormalities in Scleroderma
\$1,381,568 Sept 1, 1999 – Aug 31, 2004
NIH:NIAMS R01AR/DK46718-01

PI: Filemon K. Tan
TITLE: Genetic and protein studies of fibrillin-1 in scleroderma
\$208,829 July 1, 1998 – June 30, 2001
NIH:NCRR 3 M01 RR02558-12S1

PI: Frank C. Arnett, MD
Research Associate: Filemon K. Tan
TITLE: Specialized Centers of Research in Scleroderma
\$4,255,528 September 1, 1997 – August 31, 2001
NIH:NIAMS P50AR448888

PI: Frank C. Arnett, MD
Research fellow: Filemon K. Tan
TITLE: High prevalence of systemic sclerosis in Oklahoma Choctaw Native Americans
\$ 35,000 January 1, 1996 – December 31, 1996
Scleroderma Foundation

PI: Frank C. Arnett Effort: 30%
Co-PI: Filemon K. Tan
TITLE: Specialized Centers of Research in Scleroderma
\$5,549,941 July 1, 2001 – Aug 31, 2006
NIH:NIAMS P50AR448888

N01-AR-0-2251 Mayes (PI) 9/1/1997-8/31/2005 (no cost extension through 8/31/06)

NIH, NIAMS

Effort: 7.5%

National Scleroderma Registry and DNA Repository

Aims to collect nationwide large numbers of scleroderma patients, their family members and normal spouse/friend controls and perform SNP-based candidate gene association studies.

Role: Collaborator

U01-HL-60839

Mayes (PI)

10/1/9-9/30/2004 (no cost extension through 9/30/05)

NIH/NHLBI/NIAMS

Effort: 3.6%

Scleroderma Cyclophosphamide Lung Trial

The major goal of this study is to determine the role of this agent in the treatment of alveolitis due to systemic sclerosis.

Role: Medication Control Officer (UT-Houston)

R03 AR050517-10

Zhou (PI)

4/1/2005-3/31/2008

NIH, NIAMS

Regulation of SPARC in Scleroderma

Aims to define the pathway(s) in which SPARC participates in normal and scleroderma fibroblasts and its role (s) in fibrosis.

Role: Collaborator

PUBLICATIONS

Abstracts:

1. **Tan F**, Crow MT: Calcium regulation of fast myosin alkali light chain gene expression in cultured muscle cells. *J. Cell Biol.* 1998, 107:35
2. **Tan F**, Howard RF, Reveille JD, Moulds J, Paxton G, Arnett FC: Case control study of scleroderma in Southeastern Oklahoma. *Arthritis and Rheum.* 1994, 37:S282, 735 (Plenary session)
3. **Tan F**, Stivers DN, Chakraborty R, Howard R, Reveille JD, Anderson K, Lupski JL, Arnett FC: Microsatellite mapping of candidate genes for scleroderma in the Choctaw Native Americans. *Arthritis and Rheum.* 1996, 39:S318, 1739
4. **Tan F**, Stivers DN, Chakraborty R, Foster MW, Howard RF, Milewicz DM, Arnett FC: Microsatellite markers flanking the fibrillin-1 gene on chromosome 15q are associated with scleroderma in a Native American population. *Arthritis Research Conference, Bethesda, MD 5/29/97- 6/1/97* (Workshop presentation), 1997
5. **Tan F**, Stivers DN, Chakraborty R, Foster MW, Howard RF, Milewicz DM, Arnett FC: Microsatellite markers flanking the fibrillin-1 gene on chromosome 15q are associated with scleroderma in a Native American population. *Am. J. Hum. Genetics* 1997, 61:1232
6. **Tan F**, Stivers DN, Chakraborty R, Foster MW, Howard RF, Milewicz DM, Arnett FC: Microsatellite markers flanking the fibrillin-1 gene on chromosome 15q are associated with scleroderma in a Native American population. *Arthritis and Rheum* 1997, 40:S73,254 (Plenary session)
7. Wallis DD, **Tan FK**, Arnett FC, Milewicz D: Abnormal fibrillin-1 incorporation into the extracellular matrix of scleroderma dermal fibroblasts. *Arthritis Rheum*, 1998, 41:S103
8. Pham HT, Tan FK, Stivers DN, Chakraborty R, Arnett FC: Microsatellite polymorphisms near the topoisomerase I gene on chromosome 20 in Choctaw Native Americans with scleroderma. *Arthritis Rheum*, 1998, 41:S242
9. **Tan FK**, Le JT, Milewicz D, Arnett FC: Sequencing of the fibrillin-1 gene in Native Americans with scleroderma (systemic sclerosis or SSc). *Arthritis Rheum*, 1998, 41:S103
10. Reveille JD, Johnston KA, Ahn C, **Tan FK**, Friedman AW, Goel N, Moulds J, McGwinn G, Roseman J, Alarcon GS: Genetic predictors or disease damage and activity early in SLE among patients from three ethnic groups. *Arthritis Rheum*, 1998, 41:S283
11. Wallis DD, **Tan FK**, Kielty CM, Arnett FC, Milewicz DM: Abnormalities in fibrillin-1 containing microfibrils in fibroblast cultures from systemic sclerosis (scleroderma) patients. *Arthritis Rheum*, 1999, 42:S169

12. **Tan FK**, Stivers DN, Reveille JD, Tsao BP, Arnett FC: Polymorphisms of the poly-(ADP-ribose)-polymerase gene in African-American systemic lupus erythematosus patients. *Arthritis Rheum*, 1999 42:S311
13. Zhou XD, **Tan F**, Stivers DN, Arnett FC: Microsatellite and intragenic polymorphisms of transforming growth factor beta (TGF β) and platelet derived growth factor (PDGF) and their receptor genes in Native Americans with systemic sclerosis (scleroderma). *Arthritis Rheum*, 1999 42:S204
14. Zhou XD, **Tan F**, Stivers DN, Arnett FC: Secreted protein, acidic, cysteine-rich (SPARC) or osteonectin in systemic sclerosis (scleroderma): Altered gene expression in dermal fibroblasts and associated microsatellite markers. *Arthritis Rheum* 1999, 42:S169
15. Arnett FC, **Tan FK**, Uziel Y, Krafchik BR, Laxer RM, Antohi S, Bona, CA: Autoantibodies to the extracellular matrix microfibrillar protein, fibrillin-1 in patients with localized scleroderma. *Arthritis Rheum*, 1999, 42: S208
16. Tew M, **Tan FK**, Arnett F, Ahn C, Reveille J: Glutathione-S-transferase genotypes in systemic sclerosis. *Arthritis Rheum*, 2000, 43:S261
17. Johnson R, **Tan FK**, Arnett F, Ahn C, Reveille J: Single nucleotide polymorphism genotypes of the matrix metalloproteinase-1 promoter in systemic sclerosis *Arthritis Rheum*, 2000, 43:S262
18. **Tan FK**, Arnett, FC, Reveille JD, Ahn, C, Antohi, S, Kasturi, K., Sasaki, T, Nishioka, K, Bona CA: Autoantibodies to fibrillin-1 in systemic sclerosis: ethnic differences in antigen recognition and lack of correlation with specific clinical features or HLA alleles. *Arthritis Rheum* 2000, 43:S321
19. **Tan FK**, Wang N, Chakraborty R, Arnett FC: Association of fibrillin-1 SNP haplotypes with systemic sclerosis in a Native American tribe. *Arthritis Rheum* 2000, 43:S168
20. Zhou XD, **Tan FK**, Xiong M, Milewicz DM, Arnett FC: Comparisons of fibroblast gene expression profile in systemic sclerosis, normal controls, scleromyxedema and eosinophilic fasciitis. *Arthritis Rheum*, 2000 43:S259
21. Zhou XD, **Tan FK**, Xiong M, Dimachke M, Arnett FC; Gene expression profile in muscle biopsies from patients with inflammatory myopathies. *Arthritis Rheum*, 2000, 43:S275
22. Zhou XD, **Tan FK**, Milewicz DM, Arnett FC: Expression of autoantigen gene is selectively and specifically altered in dermal fibroblasts of systemic sclerosis patients. *Arthritis Rheum* 2000, 43:S259
23. Wallis DD, **Tan FK**, Arnett FC, Milewicz DM: Fibrillin-1 instability in fibroblast cultures from systemic sclerosis patients. *Arthritis Rheum* 2000, 43:S91
24. Gibson AW, Edberg JC, **Tan FK**, Reveille JD, Lisse JR, Alarcon GS, Kimberly RP: Association between IL-10 microsatellites and systemic lupus erythematosus in different ethnic groups. *Arthritis Rheum* 2000, 43:S359
25. Reveille JD, Gibson AW, **Tan FK**, Edberg JC, Lisse JR, Friedman AW, Fessler BJ, Bastian HM, Kang SH, Kimberly RP, Alarcon GS: IL10 and bcl-2 microsatellite analysis in systemic lupus erythematosus (SLE) patients: bcl-2 independently influences disease activity. *Arthritis Rheum* 2000, 43:S359
26. Tew MB, Johnson RW, Arnett FC, Reveille JD, **Tan FK**: Polymorphisms in the DNase 1 and 2 genes fail to explain the low serum DNase activity in patients with systemic lupus erythematosus. *Arthritis Rheum* 2000, 43: 2864
27. Johnson RW, Tew MB, Arnett FC, Reveille JD, **Tan FK**: Strikingly association of low serum DNase activity with systemic lupus erythematosus patients and their relatives. *Arthritis Rheum*, 2000 43: 2859
28. Tew MB, Arnett FC, Reveille JD, **Tan FK**: Mutations of bone morphogenetic protein receptor 2 (BMP2) are not found in patients with pulmonary hypertension and connective tissue disorders. *Arthritis Rheum* 2001, 44:S130
29. Wallis DD, **Tan FK**, Arnett FC, Milewicz DM: Fibrillin-1 abnormalities in fibroblast cultures from first degree relatives of patients with systemic sclerosis. *Arthritis Rheum* 2001, 44:S180
30. Zhou X, **Tan FK**, Bona CA, Wallis D, Milewicz DM, Arnett FC: Anti-fibrillin-1 autoantibodies induce increased gene expression of FBN1 in normal dermal fibroblasts. *Arthritis Rheum*, 2001, 44:S194.
31. Tew MB, **Tan FK**, Kang SH, Friedman AW, Baethge BO, McGwin Jr. G, Fessler BJ, Bastian HM, Reveille JD, Alarcon GS: Mannose binding lectin (MBL), genetic polymorphisms do not significantly affect clinical manifestations in systemic lupus erythematosus (SLE). *Arthritis Rheum* 2001, 44:S251
32. Zhou X, **Tan FK**, Maghidman S, Arnett FC: Genome-wide search for genetic susceptibility to systemic sclerosis in a native American population with high disease prevalence. *Arthritis Rheum* 2001, 44:S266
33. Zhou X, Wang N, **Tan FK**, Foster M, Arnett FC, Chakraborty R. Genetic evidence for the "Trail of Tears": signatures of expansion preceded by a bottleneck in the Choctaw population of Oklahoma. *Am J Hum Genet* 2002, 71:362 (Suppl)

34. **Tan F**, Tercero G, Wang N, Arnett FC: Polymorphisms of the genes encoding thrombospondin-1, fibroblast growth factor 7, and microfibrillar-associated protein 1 on chromosome 15q show no association with systemic sclerosis in Native American population. *Arthritis Rheum* 2002, 46:S350
35. Zhou X, **Tan F**, Arnett FC: Studies of gene expression in skin fibroblasts from a pair of discordant monozygotic twins. *Arthritis Rheum* 2002, 46:S350
36. Ahmed SA, Geng Y, Zhang K, Arnett FC, **Tan F**: Systemic sclerosis sera induces apoptosis and expression of fibrillin-1 in human dermal endothelial cells. *Arthritis Rheum* 2002, 46:S601
37. Zhou X, **Tan FK**, Reveille JD, Wallis DD, Milewicz DM, Ahn C, Wang A, Arnett FC: Functionally relevant single nucleotide polymorphisms in SPARC are associated with systemic sclerosis (scleroderma). *Arthritis Rheum*, 2002, 46:S621
36. Assasi S, Tercero G, Reveille JD, Arnett FC, Mayes MD, McNearney T, Fischbach M, **Tan FK**. Polymorphisms of the endothelial nitric oxide synthase and angiotensin-converting enzyme show no association with systemic sclerosis. *Arthritis Rheum* 2003, 48:S159, 2003
37. Mayes MD, Lee J, Luo J, Jin L, **Tan FK**, Arnett FC. Candidate Gene Regions Associated with Systemic Sclerosis (SSc): A Family-Based Association Study Using TDT Analysis. *Arthritis Rheum* 2003, 48:S159
38. Zhou XD, **Tan FK**, Wallis DD, Milewicz DM, Arnett FC. Anti-fibrillin-1 autoantibodies induce activation of skin fibroblasts. *Arthritis Rheum* 2003, 48:S351
39. Reveille JD, Beasley TM, **Tan FK** et al. Admixture as a measure of genomic control. Data from a multiethnic lupus cohort. *Arthritis Rheum* 2003, 48:S225
40. Mayes MD, Lee J, Luo J, Jin L, **Tan FK**, Arnett FC. Candidate gene regions associated with systemic sclerosis (SSc): A family-based association study using TDT analysis. *Arthritis Rheum*, 2003, 48:S227
41. Ho KT, Reveille JD, Baethge BA, **Tan FK**, Friedman AW, Roseman JM, Bastian HM, Fessler BJ, McGwin G Jr., Ahn CW, Alarcón GS. The use of hydroxychloroquine in the prevention of thrombosis in systemic lupus erythematosus. *Arthritis Rheum* 2003; 48: S375
42. **Tan FK**, Hildebrand B, Lester MS, Wallis DD, Milewicz DM, Zhou XD, Mayes MD, Reveille JD, Arnett FC. Classification analysis of the transcriptome of dermal fibroblasts from systemic sclerosis (SSc) patients. *Arthritis Rheum* 2004, 50:S621
43. Mayes MD, Zhang G, Luo J, **Tan FK**, Arnett FC. Candidate genes associated with systemic sclerosis (SSc): a family-based genetic association study. *Arthritis Rheum* 2004, 50:S622
44. Bastian HM, Roseman JM, **Tan FK**, Fessler BJ, Vila LM, McGwin G, Reveille JD, Alarcon GS. Admixture explains the majority of the effect of ethnicity on the occurrence of lupus nephritis (LN) in patient with systemic lupus erythematosus (SLE). *Arthritis Rheum* 2004, 50:S257
45. Mayes MD, Zhang G, Luo L, Jin L, **Tan FK**, Arnett FC. Polymorphisms in the ESRRG (Estrogen Receptor Related Gamma) gene are associated with systemic sclerosis. *Arthritis Rheum* 2005, 52 (suppl):S365 (abstract).
46. Gourh P, Assasi S, Watson K, Mayes MD, **Tan F**, Arnett FC. Association of functional PTPN22 1858 C to T polymorphism with systemic sclerosis. *Arthritis Rheum* 2005, 52 (suppl): S369
47. Mayes MD, Ahn C, Arnett FC, Reveille JD. HLA class II associations in systemic sclerosis (SSc) from the Scleroderma Family Registry and DNA Repository. *Arthritis Rheum*, 2005 52 (suppl): S582
48. Zhou X, **Tan FK**, Guo X, Arnett FC. Translocation of DNA topoisomerase I in scleroderma fibroblasts. *Arthritis Rheum* 2005, 52 (suppl): S694
49. Zhou X, Xia X, Guo X, **Tan FK**, Arnett FC. A prominent feature of scleroderma fibroblasts-decreased proliferation with suppressed PCNA and increased p21. *Arthritis Rheum* 2005, 52 (suppl): S177
50. Assasi S, Gourh P, **Tan FK**, Targoff IN, Arnett FC. Case control studies of PTPN22 1858 C→T polymorphism in idiopathic inflammatory myositis patients. *Arthritis Rheum* 2005, 52(suppl):S309
51. Bertoli AM, Fernandez M, McGwin G, **Tan FK**, Fessler BJ, Bastian HM, Vila LM, Reveille JD, Alarcon GS. Mannose binding lectin (MBL) exon 1 polymorphisms influence SLE manifestations, but not its course or outcome from a large multiethnic cohort. *Arthritis Rheum* 2005, 52(suppl):S192
52. Gardner HAR, Trojanowska M, Smith E, Pannu J, Shearstone J, Bandaru R, **Tan FK**, Mayes MD. Intact scleroderma skin biopsies have a strong transcript profile fingerprint which is incompletely reflected by explant fibroblast cultures. *Arthritis Rheum* 2005, 52(suppl):S462
53. Zhou X, Xiong M, Tan FK, Guo X, Arnett FC. SPARC, an Upstream Regulator of CTGF in Response to TGF- β Stimulation. *Arthritis Rheum* 2006, 54(suppl)
54. Gourh P, Tan FK, Mayes MD, Arnett FC. Association of Functional TYK2 V362F Polymorphism with Systemic Sclerosis. *Arthritis Rheum* 2006, 54(suppl)

55. Gourh P, **Tan FK**, Mayes MD, Arnett FC. PDGFB Gene Polymorphisms are Associated with Scleroderma in Caucasians from the Scleroderma Registry. *Arthritis Rheum* 2006, 54(suppl)
56. Arora-Singh R, Gourh P, **Tan FK**, Perry M, Mayes MD. Association of Functional TYK2 V362F Polymorphism with Systemic Sclerosis. *Arthritis Rheum* 2006, 54(suppl)
57. Arango AM, Gourh P, **Tan FK**, Reveille JD, Braun MC. Polymorphism of the C5a Receptor in Systemic Lupus Erythematosus Patients from 3 Ethnic Groups. *Arthritis Rheum* 2006, 54(suppl)
58. Assassi S, Arnett FC, Reveille JD, Gourh P, **Tan FK**, Mayes MD. Disease Features, Disease Type, HLA Types, and Autoantibody Profile in 17 Multicase SSc Families, *Arthritis Rheum* 2006, 54(suppl)
59. Gourh P, Arnett FC, **Tan FK**. Anti-Fibrillin-1 Antibody Enhances the Incorporation of Fibrillin-1 into the Extracellular Matrix. *Arthritis Rheum* 2006. *Arthritis Rheum* 2006, 54(suppl):S730
60. Alkassab F, Gourh P, **Tan FK**, McNearny T, Fischbach M, Ahn C, Arnett FC, Mayes MD. An Allograft Inflammatory Factor 1 (AIF1) Single Nucleotide Polymorphism (SNP) is Associated With Anticentromere Antibody Positive Systemic Sclerosis. *Arthritis Rheum* 2006, 54:S732
61. Gourh P, Arnett FC, Shete S, Mayes M, **Tan FK**. Gene-Gene Interactions Mediating Susceptibility to Scleroderma: Investigation of A 3 Gene Network. *Arthritis Rheum* 2007; 56:S66
62. Gourh P, Zhou X, Assassi S, Arnett FC, **Tan FK**. Comparative Analysis of Dermal Fibroblast Gene Expression Profiles from Patients with Systemic Sclerosis and Hypertrophic Burn Scars. *Arthritis Rheum* 2007; 56: S66
63. Assassi S, Mayes MD, Gourh P, Arnett FC, **Tan FK**. Systemic Sclerosis and Systemic Lupus Erythematosus have Distinct Gene Expression Profiles in the Peripheral Blood Cells. *Arthritis Rheum* 2007; 56:S67
64. Zhou X, **Tan FK**, Guo X, Tejpal N, Kahan B, Stepkowski S, Arnett FC. Up-take of Silica and Carbon Nanotubes by Human Macrophages Induces Activation of T Cells and Fibroblasts in vitro - Potential Implication for Pathogenesis of Fibrosing Diseases. *Arthritis Rheum* 2007; 56: S74
65. Sutter K, Gourh P, Mayes MD, Arnett FC, **Tan FK**. Association of IL2RA Polymorphism with Limited Systemic Sclerosis. *Arthritis Rheum* 2007; 56:4304
66. Arora-Singh RK, Gourh P, Divecha D, Arnett FC, Tan FK, Mayes MD. Association of Topoisomerase 1 Gene polymorphisms with Systemic Sclerosis from the Scleroderma Registry. *Arthritis Rheum*. 2007, 56:4303

Refereed original articles:

1. Bellion E, **Tan F**: NADP-dependent glutamate dehydrogenase from a facultative methylotroph, *Pseudomonas* sp. Strain AM1. *J. Bacteriol* 1984, 157: 435-439
2. Bellion E, **Tan, F**: An NAD-dependent alanine dehydrogenase from a methylotrophic bacterium. *Biochem. J.* 1987, 244:565-570
3. Arnett FC, Howard FR, **Tan F**, Moulds J, Bias WB, Durban E, Cameron HD, Paxton G, Hodge TJ, Weathers DO, Reveille JD: Increased prevalence of systemic sclerosis (scleroderma) in a Native American tribe in Oklahoma: Association with an Amerindian haplotype. *Arthritis Rheum*. 1996, 39: 1362-1370
4. **Tan F**, Stivers DN, Chakraborty R, Foster MW, Howard RF, Milewicz DM, Arnett FC: Association of microsatellite markers near the fibrillin 1 gene on human chromosome 15q with scleroderma in a Native American population. *Arthritis Rheum*. 1998, 41:1729-1737
5. **Tan F**, Stivers DN, Arnett FC, Chakraborty R, Howard RF, Reveille JD: HLA haplotypes and microsatellite polymorphisms in and around the MHC region in a Native American population with a high prevalence of scleroderma (systemic sclerosis). *Tissue Antigens* 1999, 53:74-80
6. **Tan FK**, Arnett FC, Stephan S, Sinichiro S, Mirachi A, Speira H, Takeshi S, Shoichi O, LeRoy C, Postlewaite AE, Bona C: Autoantibodies to the extra-cellular matrix microfibrillar protein, fibrillin-1 in patients with scleroderma and other connective tissue diseases. *J Immunol* 1999, 163: 1066-1072
7. Arnett FC, **Tan FK**, Uziel Y, Krafchik BR, Laxer RM, Antohi S, Bona, CA: Autoantibodies to the extracellular matrix microfibrillar protein, fibrillin-1 in patients with localized scleroderma. *Arthritis Rheum* 1999, 42:2656-2659
8. Zhou X, **Tan FK**, Stivers DN, Arnett FC: Microsatellites and intragenic polymorphisms of transforming growth factor β and platelet derived growth factor and their receptor genes in Native Americans with systemic sclerosis (scleroderma): a preliminary genetic analysis showing no genetic association. *Arthritis Rheum* 2000, 43: 1068-1073

9. **Tan FK**, Reveille JD, Arnett FC, Stivers DN and Tsao BP: Poly (ADP)-ribose polymerase and susceptibility to systemic lupus erythematosus. *Arthritis Rheum* 2000, 43: 1421
10. **Tan FK**, Arnett, FC, Reveille JD, Ahn, C, Antohi, S, Kasturi, K., Sasaki, T, Nishioka, K, Bona CA: Autoantibodies to fibrillin-1 in systemic sclerosis: ethnic differences in antigen recognition and lack of correlation with specific clinical features or HLA alleles. *Arthritis Rheum* 2000, 43: 2464-2471
11. Tew MB, Ahn C, Friedman AW, Reveille JD, **Tan FK**, Alarcon GS, Bastian HM, Fessler BJ, McGwin G, Lisse J: Systemic lupus erythematosus in three ethnic groups: VIII. Glutathione S-transferase null alleles lack association with disease manifestations. *Arthritis Rheum* 2001, 44: 981-983
12. **Tan FK**, Wang N, Kuwana M, Chakraborty R, Bona C, Milewicz D, Arnett FC: Association of fibrillin-1 single nucleotide polymorphisms (SNP) haplotypes with systemic sclerosis in Native American and Japanese populations. *Arthritis Rheum* 2001, 44: 893-901
13. Guo D, **Tan FK**, Cantu A, Plon SE, Milewicz: FBN1 exon 2 splicing error in a patient with Marfan syndrome. *Am J Med Genet* 2001, 101: 130-134
14. Wallis DD, **Tan FK**, Kielty CM, Arnett FC, Milewicz DM: Abnormalities in fibrillin-1 containing microfibrils in dermal fibroblasts cultures from patients with systemic sclerosis (scleroderma). *Arthritis Rheum* 2001, 44:1855-1864
15. Tew MB, Reveille JD, Arnett FC, Friedman AW, McNearney T, Fischbach M, Ahn C, **Tan FK**: Glutathione-S-transferase genotypes in systemic sclerosis. *Genes Immunity* 2001, 2:236-238
16. Johnson RW, Reveille, JD, McNearney T., Fischbach M., Friedman AF, Ahn C, Arnett FC, **Tan FK**: Lack of association of a functionally relevant single nucleotide polymorphism in the metalloproteinase 1 promoter with systemic sclerosis, *Genes Immunity* 2001, 2:273-275
17. Tew MB, Johnson RW, Reveille JD, **Tan FK**: A molecular analysis of low serum deoxyribonuclease activity in lupus patients I. *Arthritis Rheum* 2001, 44:2446-2447
18. Zhou XD, **Tan FK**, Xiong M, Milewicz DM, Feghali C, Fritzler M, Arnett FC: Systemic Sclerosis (Scleroderma) - specific autoantigen genes are selectively over-expressed in scleroderma fibroblasts, *J Immunol* 2001, 167:7126-7133
19. Tew MB, Johnson RW, Reveille JD, **Tan FK**: A molecular analysis of low serum deoxyribonuclease activity in lupus patients II. *Arthritis Rheum* 2002, 46:1976-1977
20. Tew MB, Arnett FC, Reveille JD, **Tan FK**: Mutations of the bone morphogenetic protein receptor 2 (*BMP2*) are not found in patients with pulmonary hypertension and underlying connective tissue disease. *Arthritis Rheum* 2002, 46:2829-2830
21. Zhou XD, **Tan FK**, Reveille JD, Wallis D, Milewicz DM, Ahn C, Wang A, Arnett FC: Association of novel polymorphisms with the expression of SPARC in normal fibroblasts and with susceptibility to scleroderma. *Arthritis Rheum* 2002, 46: 2990-2999
22. Kodera T, **Tan FK**, Sasaki T, Arnett FC, Bona CA. Association of 5'-untranslated region of the Fibrillin-1 gene with Japanese scleroderma. *Gene* 2002; 297:61-67.
23. Zhou X, **Tan FK**, Wang, Chakraborty R, Arnett FC: Genome-wide association study for systemic sclerosis susceptibility regions in a Native American population with a high disease prevalence. *Arthritis Rheum* 2003, 48: 2585-2592
24. **Tan FK**, Tercero G, Wang N, Chakraborty R, Arnett FC. Association of fibrillin-1 single nucleotide polymorphisms (SNP) haplotypes with systemic sclerosis in Native American and Japanese populations: Examination of biologically relevant candidates around FBN1, *Arthritis Rheum*, 2003 48:3295-3296
25. Wang N, Zhou X, **Tan FK**, Foster MW, Arnett FC, Chakraborty R: Genetic signatures of pre-expansion bottleneck in the Choctaw population of Oklahoma. *Am J Phys Anthropol* 2004, 124:373-379
26. Wallis DD, **Tan FK**, Keasler R, Milewicz DM. Fibrillin-1 abnormalities in dermal fibroblast cultures from first degree relatives of patients with systemic sclerosis (Scleroderma). *Arthritis Rheum* 2004, 50:329-332
27. Zhou XD, Dimachkie MM, Xiong M, **Tan FK**, Arnett, FC. cDNA microarrays reveal distinct gene expression clusters in idiopathic inflammatory myopathies. *Med Sci Monit* 2004, 10:191-197
28. Caserta TM, Knisley AM, **Tan FK**, Arnett FC, Brown TL. Genotypic analysis of the TGF beta-509 allele in patients with systemic lupus erythematosus and Sjögren's syndrome. *Annales de Genetique* 2004 47:359-363
29. Zhou X, **Tan FK**, Guo X, Wallis D, Milewicz DM, Xue S, Arnett FC. Short interfering RNA inhibition of SPARC attenuates the profibrotic effect of transforming growth factor β 1 in cultured normal human fibroblasts. *Arthritis Rheum* 2005 52:257-261

30. **Tan FK**, Hildebrand BA, Lester M, Stivers DN, Pounds S, Zhou X, Wallis DD, Milewicz DM, Reveille JD, Mayes MD, Jin L, Arnett FC. Classification analysis of the transcriptome of non-lesional cultured dermal fibroblasts from scleroderma patients with early disease. *Arthritis Rheum*, 2005 52:865-876
31. Ho KT, Ahn CW, Alarcon GS, Baethge BA, **Tan FK**, Roseman J, Bastian HM, Fessler BJ, McGwin G Jr, Vila LM, Calvo-Alén, Reveille JD for the LUMINA Study Group. Systemic lupus erythematosus in a multiethnic cohort (LUMINA): XXVIII. Factors predictive of thrombotic events. *Rheumatology* 2005, Advance Access published online on July 19, 2005
32. Assassi S, Reveille JD, Arnett FC, Mayes MD, McNearney T, Fischbach M, **Tan FK**. Polymorphisms of the endothelial nitric oxide synthase and angiotensin-converting enzyme show no association with systemic sclerosis. *Am J Med*, 2005, 118: 907-911 37.
33. Zhou X, **Tan FK**, Wallis D, Bona C, Milewicz DM, Arnett FC: Autoantibodies to fibrillin-1 activate normal human fibroblasts in culture through the TGF beta pathway and recapitulate the “scleroderma phenotype” *J Immunol*, 2005, 175:4555-4560
34. Zhou X, **Tan FK**, Xiong M, Arnett FC, Feghali-Bostwick CA. Clinically discordant scleroderma monozygotic twins show concordance for fibroblast gene expression profiles. *Arthritis Rheum*, 2005, 52:3305-3314
35. Alarcon GS, Beasley TM, Roseman JM, McGwin G Jr, Fessler BJ, Bastian HM, Vila LM, **Tan F**, Reveille JD; LUMINA Study Group. Ethnic disparities in health and disease: the need to account for ancestral admixture when estimating the genetic contribution to both (LUMINA XXVI). *Lupus*, 2005, 14:867-8.
36. **Tan FK**, Zhou X, Mayes MD, Gourh P, Guo X, Marcum C, Jin J, Arnett FC. Signatures of differentially regulated interferon gene expression and vasculotropism in the peripheral blood cells of systemic sclerosis patients. *Rheumatology (Oxford)*, 2006, 45: 694-702
37. Alarcon GS, Calvo-Alen J, McGwin G, Uribe AG, Toloza SMA, Roseman J, Fernandez M, Fessler BJ, Luis Vila, Ahn C, **Tan FK**, Reveille JD. Systemic lupus erythematosus in a multiethnic cohort: LUMINA XXXV. Predictive factors of high disease activity over time. *Ann Rheum Dis* Published Online First: 31 January 2006.
38. Alarcon GS, Bastian HM, Beasley TM, Roseman JM, **Tan FK**, Fessler BJ, Vila LM, McGwin G Jr; LUMINA Study Group. Systemic lupus erythematosus in a multi-ethnic cohort (LUMINA): contributions of admixture and socioeconomic status to renal involvement. *Lupus*, 2006, 15:26-31
39. Bertoli AM, Fernandez M, McGwin G Jr, Alarcon GS, **Tan FK**, Reveille JD, Vila LM. Systemic lupus erythematosus in a multiethnic US cohort: XXXVI. Influence of mannose-binding lectin exon 1 polymorphisms in disease manifestations, course, and outcome. *Arthritis Rheum*. 2006, 54:1703-1704
40. Calvo-Alen J, Alarcon GS, Tew MB, **Tan FK**, McGwin G Jr, Fessler BJ, Vila LM, Reveille JD. Systemic lupus erythematosus in a multiethnic US cohort: XXXIV. Deficient mannose-binding lectin exon 1 polymorphisms are associated with cerebrovascular but not with other arterial thrombotic events. *Arthritis Rheum*. 2006 May 25;54(6):1940-1945 [Epub ahead of print]
41. Gardner H, Shearstone J, Bandaru R, Crowell T, Lynes M, Trojanowska M, Pannu J, Kubo M, Smith E, Jabloniska S, Blaszczak, **Tan FK**, Mayes MD. Gene profiling of scleroderma skin reveals robust signatures of disease which are imperfectly reflected in the transcript profiles of explanted fibroblasts. *Arthritis Rheum* 2006, 43:1961-1973
42. Tashkin DP, Elashoff R, Clements PJ, Goldin J, Roth MD, Furst DE, Arriola E, Silver R, Strange C, Bolster M, Seibold JR, Riley DJ, Hsu VM, Varga J, Schraufnagel DE, Theodore A, Simms R, Wise R, Wigley F, White B, Steen V, Read C, Mayes M, Parsley E, Mubarak K, Connolly MK, Golden J, Olman M, Fessler B, Rothfield N, Metersky M; Scleroderma Lung Study Research Group. Cyclophosphamide versus placebo in scleroderma lung disease. *N Engl J Med*, 2006 354:2655-2666
43. Ahmed SS, **Tan FK**, Arnett FC, Jin L, Geng YJ. Induction of apoptosis and fibrillin 1 expression in human dermal endothelial cells by scleroderma sera containing anti-endothelial cell antibodies. *Arthritis Rheum*, 2006 54:2250-2262
44. Zhou X, **Tan FK**, Guo X, Arnett FC. Attenuation of collagen production with small interfering RNA of SPARC in cultured fibroblasts from the skin of patients with scleroderma. *Arthritis Rheum*, 2006 54:2626-2631
45. Zhou XD, Xiong M, **Tan FK**, Guo XJ, Arnett FC. SPARC, an upstream regulator of connective tissue growth factor to transforming growth factor beta stimulation. *Arthritis Rheum*, 2006 54:3885-3889
46. Gourh P, **Tan FK**, Assassi S, Ahn CW, McNearney TA, Fischbach M, Arnett FC, Mayes MD. Association of the PTPN22 R620W polymorphism with topoisomerase I and centromere autoantibody positive systemic sclerosis. *Arthritis Rheum* 2006, 54:3945-2953

47. McNearny TA, Reveille JD, Fischbach M, Friedman AF, Lisse JR, Goel N, **Tan FK**, Zhou X, Ahn C, Feghali-Bostwick CA, Fritzler M, Arnett FC, Mayes MD. Pulmonary involvement in systemic sclerosis: Associations with genetic, serologic, sociodemographic, and behavioral factors. *Arthritis Care Res*, 2007 57: 318-326
48. Alkassab F, Gourh P, **Tan FK**, McNearny T, Fischbach M, Ahn C, Arnett FC, Mayes MD. An allograft inflammatory factor 1 (AIF1) single nucleotide polymorphism (SNP) is associated with anticentromere antibody positive systemic sclerosis. *Rheumatology (Oxford)*, 2007 e-publication ahead of print

Invited reviews:

1. **Tan FK**, Taegtmeier H: Mechanisms of cardiac hypertrophy in systemic hypertension. A critical appraisal. *J. Appl. Cardiol.* 1:329-359, 1986
2. **Tan FK**, Taegtmeier H: Concepts of cholesterol metabolism and cholesterol lowering drugs: attempt of a balanced review. *J. Appl. Cardiol.* 3:67-86, 1988
3. **Tan FK**: Human immunodeficiency virus and arthritis. *Res. Staff Phys. April, Supplement*, 11-17, 1994
4. **Tan FK**, Arnett FC: Genetics of lupus. *Current Opin Rheum*, 10:399-408, 1998
5. **Tan FK**, Arnett, FC: Genetics factors in the etiology of systemic sclerosis and Raynaud's phenomenon. *Curr Opin Rheum*, 12:511-519, 2000
6. **Tan, FK**. Systemic sclerosis: the susceptible host (genetics and environment). *Rheum Dis Clin North America* 2003, 29:211-237
7. Ahmed S, **Tan FK**. Identification of Novel Targets in Scleroderma - Update on Population Studies, cDNA arrays, SNP Analysis and Mutations. *Current Opin Rheum* 2003, 15:766-771
8. Assassi S, **Tan FK**. Genetics of scleroderma. Update on SNP analysis and microarrays. *Current Opin Rheum* 2005, 17:761-767
9. **Tan, F. K**. Autoantibodies against PDGF Receptor in Scleroderma. *N Engl J Med* 2006, 354: 2709-2711
10. Agarwal SK, **Tan FK**, Arnett FC. Genetics and Genomic studies in scleroderma (systemic sclerosis). *Rheum Dis Clin N Am* 2008, 34:17-40